N DUE A	DER AUG 12, 702 DER AUG 12, 702 DER SEPT SIZOZZ DER SEPT SIZOZZ UND DATE SUPI 23,0002 PA	DUE TENT COM	TES DOCKETED TO COSTA OR RED ! TO 22 TOO2 TO 23 TOO2 THATION TREATY THE	JUL 31 ##
To: Si V	he INTERNATIONAL SEARCH HMUEL LIVNAT ENABLE, BATJER, HOWARD 8 201 NEW YORK AVE, NW, UITE 1000		P	VENABLE IP DOCKETING DEP
P.	O. BOX 34385 /ASHINGTON, DC 20043-9998		THE INTERNATIO OR THE I	OF TRANSMITTAL OF DNAL SEARCH REPORT DECLARATION
			Date of Mailing (day/month/year)	Rule 44.1)
Applican	it's or agent's file reference			
	1-178598		FOR FURTHER ACTION	See paragraphs 1 and 4 below
Internati	ional application No.		stional filing date	
PCT/I	US02/04875		ωay/month/year) 20 FEBRUA	RY 2002
1. X	The applicant is hereby notified	d that the internationa	l search report has been establis	hed and is transmitted herewith.
1. X	Filing of amendments and sta The applicant is entitled, if he When? The time limit for international search Where? Directly to the Inter	stement under Article so wishes, to amend to filing such amendment report.	the claims of the international apents is normally two months from	plication (see Rule 46): m the date of transmittal of the
1. X	Filing of amendments and sta The applicant is entitled, if he When? The time limit for international search Where? Directly to the Inter	stement under Articles wishes, to amend to filing such amendment report. rnational Bureau of W. Switzerland, Facsimile	e 19; the claims of the international ap- ents is normally two months from VIPO, 34 chemin des Colombette e No.: (41-22) 740.14.35	plication (see Rule 46): m the date of transmittal of the
2	Filing of amendments and sta The applicant is entitled, if he s When? The time limit for international search Where? Directly to the Inter 1211 Geneva 20, 8	tement under Articles owishes, to amend in filling such amendment report. Trational Bureau of W. Switzerland, Facsimile was, see the notes on the fill that no international internatio	e 19: the claims of the international apents is normally two months from VIPO, 34 chemin des Colombette e No.: (41-22) 740.14.35 the accompanying sheet.	plication (see Rule 46): m the date of transmittal of the
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2	Filing of amendments and sta The applicant is entitled, if he a When? The time limit for international search Where? Directly to the Inter 1211 Geneva 20, S For more detailed instructio The applicant is hereby notified Article 17(2)(a) to that effect is With regard to the protest aga the protest together with the applicant's request to for no decision has been made	itement under Articles owishes, to amend in filling such amendment a report. Transional Bureau of W. Switzerland, Facsimile one, see the notes on the filling of the filli	e 19: the claims of the international apents is normally two months from VIPO, 34 chemin des Colombette e No.: (41-22) 740.14.35 the accompanying sheet. search report will be established additional fee(s) under Rule 40.2	plication (see Rule 46); In the date of transmittal of the es d and that the declaration under 2, the applicant is notified that: titional Bureau together with the reon to the designated Offices.
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NOTES TO FORM PCT/ISA/220 (continued)

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where or goally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

The statement should be brief, it should not exceed 500 words if in English or if translated into English.

It should not be confounded with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and asset be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It should not commin any disparaging comments on the international search report or the relevance of citations contained in the report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

In what language?

The amendments must be made in the language in which the international application is published. The letter and any statement accompanying the amendments must be in the same language as the international application if that language is English or French; otherwise, it must be in English or French, at the choice of the applicant.

Consequence if a demand for international preliminary examination has already been filed?

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase?

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty and of the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

The claims only.

The description and the drawings may only be amended during international preliminary examination under Chapter IL

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time Emit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Durens after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

What documents mucl/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confounded with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the dam is new;
- (iv) the claim replaces one or more claims as filed,
- (v) the claim is the result of the division of a claim as filed.

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: SHMUEL LIVNAT VENABLE, BATJER, HOWARD & CIVILETTI, LLP 1201 NEW YORK AVE, NW, SUITE 1000 P.O. BOX 34385 WASHINGTON, DC 20043-9998	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION (PCT Rule 44.1) Date of Mailing (day/month/year) 2 3 JUL 2007		
Applicant's or agent's file reference			
40011-178593	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No. PCT/US02/04875	International filing date (day/month/year) 20 FEBRUARY 2002		
Applicant	\$0 FEBRUART \$002		
GENE CHECK, INC.			
Filing of amendments and statement under Article The applicant is entitled, if he so wishes, to amend When? The time limit for filing such amendment	al search report has been established and is transmitted herewith. e 19: the claims of the international application (see Rule 46): ents is normally two months from the date of transmittal of the		
international search report. Where? Directly to the International Bureau c TPO, 34 chemin des Colombettes			
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet.			
	search report will be established and that the declaration under		
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.			
no decision has been made yet on the protest;	the applicant will be notified as soon as a decision is made.		
applicant wishes to avoid or postpone publication, a notice of must reach the International Bureau as provided in rules 90bi. preparations for international publication. Within 19 months from the priority date, but only in respect examination must be filled if the applicant wishes to postpone	nal application will be published by the International Bureau. If the withdrawal of the international application, or of the priority claim, s. 1 and 90bis. 3, respectively, before the completion of the technical of some designated Offices, a demand for international preliminary the entry into the national phase until 30 months from the priority		
acts for entry into the national phase before those designated	(
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.			
See the Annex to Form PCT/IB/301 and, for details about the Guide, Volume II, National Chapters and the WIPO Internet	e applicable time limits, Office by Office, see the PCT Applicants's site.		
Name and mailing address of the ISA/US	Authorized officer		
Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231	ETHAN WHISEWANT, Ph.D.		
Facsimile No. (703) 305-3230	Telephone No. (703) 308-0196		
Form PCT/ISA/220 (April 2002)*	(See notes on accompanying sheet)		

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 40011-178595	FOR FURTHER ACTION		Transmittal of International Search Report 20) as well as, where applicable, item 5	
International application No.	International filing date		(Earliest) Priority Date (day/month/year)	
PCT/US02/04875	20 FEBRUARY 2002		21 FEBRUARY 2001	
Applicant GENE CHECK, INC.				
This international search report has bee according to Article 18. A copy is bein This international search report consis	g transmitted to the Inter ts of a total of sheet	national Bureau. s.	nority and is transmitted to the applicant	
			-	
Basis of the report a. With regard to the language, the language in which it was filed.			asis of the international application in the	
the international search was Authority (Rule 23.1(b)).	s carried out on the basis o	f a translation of th	e international application furnished to this	
b. With regard to any nucleotide was carried out on the basis of		ce disclosed in the in	ternational application, the international search	
contained in the internation		orm.		
filed together with the inter	rnational application in co	nputer readable for	m.	
furnished subsequently to the	furnished subsequently to this Authority in written form.			
furnished subsequently to the	nis Authority in computer i	eadable form.		
the statement that the subs	equently furnished written	sequence listing do	es not go beyond the disclosure in	
l —	ation recorded in computer r	eadable form is iden	tical to the written sequence listing has been	
2. Certain claims were found	unscarchable (See Box I).			
3. Unity of invention is lacking	ng (See Box II).		ŕ	
4. With regard to the title,				
X the text is approved as sub-	mitted by the applicant.			
the text has been establishe	d by this Authority to rea	d as follows:		
5. With regard to the abstract,				
X the text is approved as subs	mitted by the applicant.			
the text has been established Box III. The applicant may, search report, submit comm	within one month from the			
6. The figure of the drawings to be po	ublished with the abstract	is Figure No	_	
as suggested by the applica	nt.		X None of the figures.	
because the applicant failed	to suggest a figure.		L	
because this figure better cl	haracterizes the invention.	0		

Form PCT/ISA/210 (first sheet) (July 1998)*

INTERNATIONAL SEARCH REPORT

International application No. PCT/US02/04875

		PCT/US02/04	875
IPC(7)	SSIFICATION OF SUBJECT MATTER :C12Q 1/68; C07H 21/02, 21/04 :435/6; 536/23.1, 24.3		
	to International Patent Classification (IPC) or to bo	th national classification and IPC	
	LDS SEARCHED		
	documentation searched (classification system follow	ed by classification symbols)	
Documentat searched	tion searched other than minimum documentation	to the extent that such documents are	ncluded in the fields
	data base consulted during the international search (e Extra Sheet.	name of data base and, where practicabl	e, search terms used)
C. DOC	CUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
A	US 5,217,863 A (COTTON et al) document.	08 June 1993, see entire	1-28
A	US 4,988,617 A (LANDEGREN et a document.	1) 29 January 1991, see entire	1-28
A	SAIKI et al. Analysis of enzymatically DQ alpha DNA with allele-specific oli November 1986. Vol. 324, pages 163	gonuclkeotide probes. Nature.	1-28
A,P	US 6,406,847 B1 (COX et al) 18 Jur	ne 2002, see entire document.	1-28
X Furti	her documents are listed in the continuation of Box	C. See patent family annex.	
"A" doc	ecial categories of cited documents: cument defining the general state of the art which is not considered be of particular relevance	"I" later document published after the inte date and not in conflict with the appl the principle or theory underlying the	cation but cited to understand
"E" car	rlier document published on or after the international filing date cument which may throw doubts on priority claim(s) or which is	"X" document of particular relevance; the considered novel or cannot be consider when the document is taken alone	claimed invention cannot be ed to involve an inventive step
"O" doc	ed to establish the publication date of another citation or other social reason (as specified) cument referring to an oral disclosure, use, exhibition or other same	"Y" document of particular relevance; the considered to involve an inventive step with one or more other such docum obvious to a person skilled in the art	then the document is combined
"P" doc	cument published prior to the international filing date but later an the priority date claimed	"A" document member of the same patent	family
	actual completion of the international search	Date of mailing of the international see	OZ
Commission Box PCT	mailing address of the ISA/US ner of Patents and Trademarks	Authorized officer ETHAN WHISENART, Ph.D.	rallen for
Facsimile N	n, D.C. 20231 io. (708) 305-3280	Telephone No. (708) 308-0196	\wedge

Form PCT/ISA/210 (second sheet) (July 1998)*

INTERNATIONAL SEARCH REPORT

International application No. PCT/US02/04875

Electronic data bases consulted (Name of data base and where practicable terms used): USPATFULL, EUROPATFULL, MEDLINE, CAPLUS, and BIOSIS				
earch terms: mutation or SI	P or mismatch, RecA, MutS			
	•			

Form PCT/ISA/210 (extra sheet) (July 1998)*

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US02/04875

****	PCI/I	US02704875	
C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passa	ages Relevant to claim N	
A	UGOZZOLI et al. Detection of speciofic alleles by using allele specific primer extension followed by capture on solid support GATA. 1992, Vol. 9, No. 4, pages 107-112, see entire document		
Y.	US 6,120,992 A (WAGNER R.) 19 September 2000, see entire document.	1-26	
	US 5,824,471 A (MASHAL et al) 20 October 1998, see entire document.	1-28	
ζ 	US 5,56,°50 A (MODRICH et al) 17 September 1996, see entir document.	re 1-26	
ζ .		27-28	

Form PCT/ISA/210 (continuation of second sheet) (July 1998)★